



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 103166

TO: Michael Pak
Location: 1/10e13 & 10d19
Art Unit: 1646
Wednesday, September 10, 2003

Case Serial Number: 09818657

From: Mary Jane Ruhl
Location: Biotech-Chem Library
CM1-6A06
Phone: 605-1155

maryjane.ruhl@uspto.gov

Search Notes

Examiner Pak,

Here are the results for your recent search request.

Please feel free to contact me if you have any questions about these results.

Thank you for using STIC services. We appreciate the opportunity to serve you.

Sincerely,

Mary Jane Ruhl
Technical Information Specialist
STIC
CM-1, Rm. 6-A-06
605-1155

CC polypeptide and polynucleotides may be used in the prevention, diagnosis
CC and treatment of diseases associated with inappropriate hnp expression.
CC The present sequence represents the human transporter protein of the
CC invention.

XX Sequence 465 AA:

Query Match 100.0%; Score 2485; DB 23; Length 465;
Best Local Similarity 100.0%; Pred. No. 2,4e-235;
Matches 465; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGPKAFLEFSPFLRSQSGRYLVLLTLHLGNCVDAKDEDEDLTVNKTWLPARKH 60
DB 1 MGPKAFLEFSPFLRSQSGRYLVLLTLHLGNCVDAKDEDEDLTVNKTWLPARKH 60
QY 61 EGDITQILNSLQGYDNKLRPDIGVPRVETDVYNSIGFVDPINMEYTIIDIFAQTFW 120
DB 61 EGDITQILNSLQGYDNKLRPDIGVPRVETDVYNSIGFVDPINMEYTIIDIFAQTFW 120
QY 121 DSRLEFNSITMKVLMNSNMVGIWIPDFFRNRSKSDAHMTTPNRLLRIMNDGRVLYTL 180
DB 121 DSRLEFNSITMKVLMNSNMVGIWIPDFFRNRSKSDAHMTTPNRLLRIMNDGRVLYTL 180
QY 181 RLITNAECYQLHNPMDHSCPLFEFSYGYPKNEIEYKMKKPSVEVADPKYRLLYQFAF 240
DB 181 RLITNAECYQLHNPMDHSCPLFEFSYGYPKNEIEYKMKKPSVEVADPKYRLLYQFAF 240
QY 241 VGLNSTEITHTISGDYVIMTIFPDLSRMGFTIOTYIPCLITVLSWSPFINKDAVP 300
DB 241 VGLNSTEITHTISGDYVIMTIFPDLSRMGFTIOTYIPCLITVLSWSPFINKDAVP 300
QY 301 ARTSLGITTVLIMTISTIAKSLPKVSVYVAMDLFVSCFIFVPAALMEYGLHFTSN 360
DB 301 ARTSLGITTVLIMTISTIAKSLPKVSVYVAMDLFVSCFIFVPAALMEYGLHFTSN 360
QY 361 OKGKTATKDRKLKKNASMTPLHPSGTLIPMNISVPQEDDYQCLEGKDCASFCCFE 420
DB 361 OKGKTATKDRKLKKNASMTPLHPSGTLIPMNISVPQEDDYQCLEGKDCASFCCFE 420
QY 421 DCRGSMREGRIHRIAKIDSYSRIFFPAALFNLVWGYLYL 465
DB 421 DCRGSMREGRIHRIAKIDSYSRIFFPAALFNLVWGYLYL 465

RESULT 2
ABB08234 standard: Protein: 465 AA.

XX ABB08234:

XX 18-JUN-2002 (first entry)

XX Human gamma-aminobutyric acid (GABA) receptor subunit #1.

XX Human: GABA: gamma aminobutyric acid; receptor: gene therapy: protein.

XX Homo sapiens.

XX Key Location/Qualifiers

XX FT Misc-difference 257 /note- "Encoded by TAK"

XX PN WO200200720-A2.

XX PD 03-JAN-2002.

XX PF 27-JUN-2001: 2001MO-US20417.

XX PR 27-JUN-2000: 2000US-214083P.

XX PA (LEXI-) LEXICON GENETICS INC.

XX PU Walke DM, Fridde CJ, Mathur B, Turner CA;

XX MPI: 2002-139905/18.
DR N-PSDB: ABA96143, ABA96145.
XX
PT New polynucleotides encoding novel human proteins sharing sequence
PT similarity with membrane receptors e.g. gamma aminobutyric acid
PT receptors, for generating primers and probes used to identify drug
PT targets.

XX Claim 1; Page 35-37; 38pp; English.

CC The sequence represents a novel human polypeptide having sequence
CC similarity with gamma aminobutyric acid (GABA) receptors. The invention
CC relates to novel human protein (NHP) encoding sequence, where the protein
CC is a human gamma aminobutyric acid receptor. The sequences may have a use
CC in gene therapy. The NHP polynucleotide sequences that encode NHPs
CC sharing sequence similarity with membrane receptors e.g. GABA receptor
CC subunits, when knocked out provide a method for:
CC (1) identifying phenotypic expression of the particular gene as well as
CC assigning function to previously unknown genes,
CC (11) identifying a coding sequence and mapping a unique gene to a
CC particular chromosome; and
CC (111) identifying biologically relevant splice junctions.
CC The NHP polynucleotide sequences are useful:
CC (1) in gene therapy techniques for the modulation of NHP expression;
CC (11) for detecting mutant NHPs or inappropriately expressed NHPs for
CC the diagnosis of disease;
CC (111) for screening drugs effective in treatment of symptomatic or
CC phenotypic manifestations of perturbing the normal function of NHP in
CC the body.
CC The sequences are also useful for identifying mutations associated with a
CC particular disease and also as a prognostic or diagnostic assay. The
CC nucleic acid molecule is also useful in the molecular mutagenesis/
CC evolution of proteins that are at least partially encoded by the
CC described new sequences.

XX Sequence 465 AA:

Query Match 100.0%; Score 2485; DB 23; Length 465;
Best Local Similarity 100.0%; Pred. No. 2,4e-235;
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DB 1 MGPKAFLEFSPFLRSQSGRYLVLLTLHLGNCVDAKDEDEDLTVNKTWLPARKH 60
QY 61 EGDITQILNSLQGYDNKLRPDIGVPRVETDVYNSIGFVDPINMEYTIIDIFAQTFW 120
DB 61 EGDITQILNSLQGYDNKLRPDIGVPRVETDVYNSIGFVDPINMEYTIIDIFAQTFW 120
QY 121 DSRLEFNSITMKVLMNSNMVGIWIPDFFRNRSKSDAHMTTPNRLLRIMNDGRVLYTL 180
DB 121 DSRLEFNSITMKVLMNSNMVGIWIPDFFRNRSKSDAHMTTPNRLLRIMNDGRVLYTL 180
QY 181 RLITNAECYQLHNPMDHSCPLFEFSYGYPKNEIEYKMKKPSVEVADPKYRLLYQFAF 240
DB 181 RLITNAECYQLHNPMDHSCPLFEFSYGYPKNEIEYKMKKPSVEVADPKYRLLYQFAF 240
QY 241 VGLNSTEITHTISGDYVIMTIFPDLSRMGFTIOTYIPCLITVLSWSPFINKDAVP 300
DB 241 VGLNSTEITHTISGDYVIMTIFPDLSRMGFTIOTYIPCLITVLSWSPFINKDAVP 300
QY 301 ARTSLGITTVLIMTISTIAKSLPKVSVYVAMDLFVSCFIFVPAALMEYGLHFTSN 360
DB 301 ARTSLGITTVLIMTISTIAKSLPKVSVYVAMDLFVSCFIFVPAALMEYGLHFTSN 360
QY 361 OKGKTATKDRKLKKNASMTPLHPSGTLIPMNISVPQEDDYQCLEGKDCASFCCFE 420
DB 361 OKGKTATKDRKLKKNASMTPLHPSGTLIPMNISVPQEDDYQCLEGKDCASFCCFE 420
QY 421 DCRGSMREGRIHRIAKIDSYSRIFFPAALFNLVWGYLYL 465
DB 421 DCRGSMREGRIHRIAKIDSYSRIFFPAALFNLVWGYLYL 465